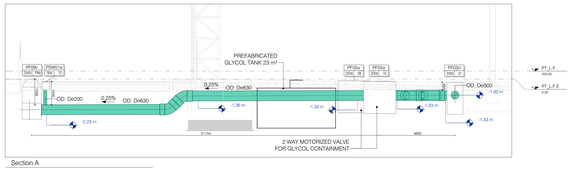

Section A

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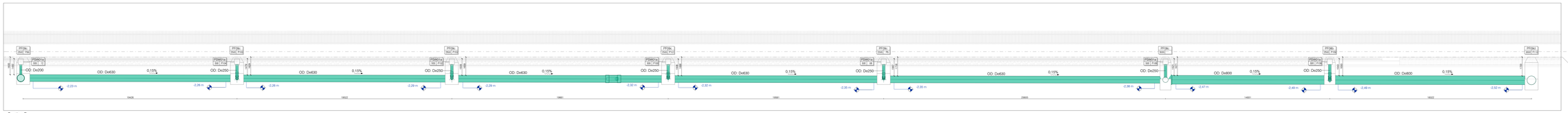

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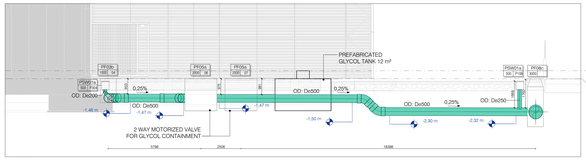

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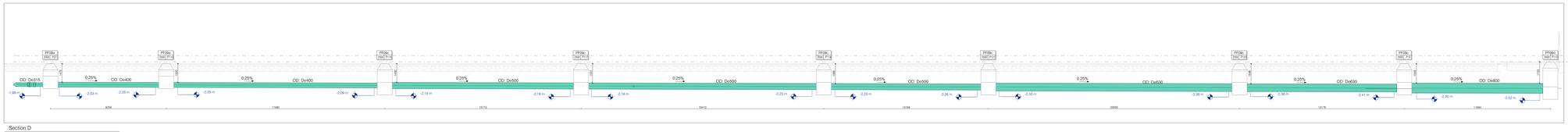

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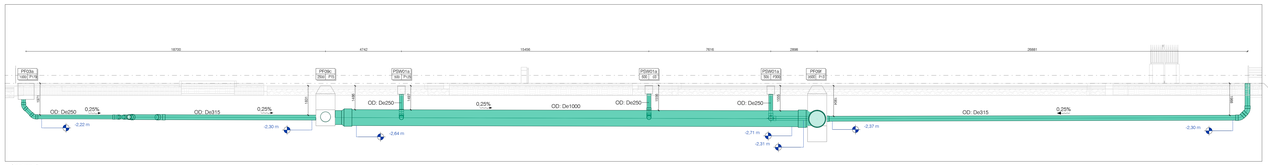

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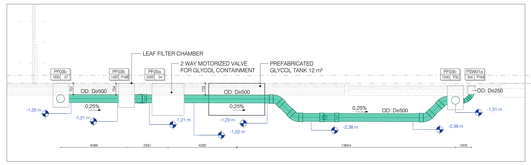

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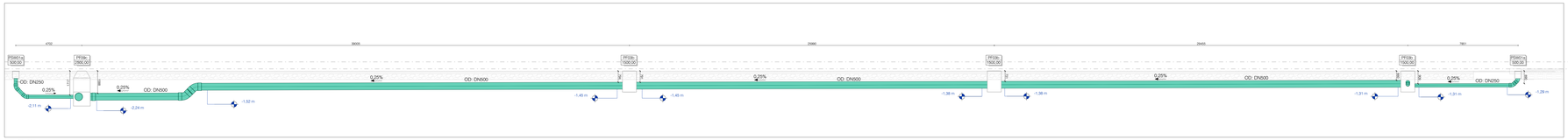

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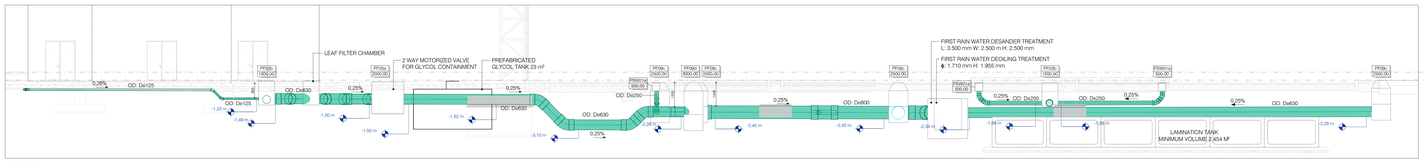


Section H

1 : 100

5300 Schedule Plumbing Fixtures

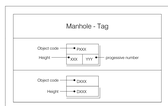
Type Mark	Length	Width	Diameter
PF00a	1000.00	1000.00	
PF00b	1000.00	1000.00	
PF00c	1000.00	1000.00	
PF00d	1000.00	1000.00	
PF00e	1500.00	1000.00	
PF00a	2000.00	2000.00	
PF00a	1800.00	800.00	
PF01a	1900.00	1000.00	
PF00a			1000.00
PF00b			1000.00
PF00c			1000.00
PF00d			1200.00
PF00e			1200.00
PF00e			1200.00
PF00f			1200.00
PS9001a	500.00	500.00	
PS9001b	500.00	500.00	
PS9001c	500.00	500.00	

DR - Legenda Tubazioni

DR - Pipe Systems Legend

OD	Scarico Acque Oleose *Oil water drainage*
OD	Scarico Acque Disoleate *Oil water drainage*
	Pozzetto Ispezionabile *Inspectionable Manhole*
	Pozzetto Ispezionabile *Inspectionable Manhole*
	Caditoia *Storm Drain*
EMERGENCY DIESEL GENERATOR	Pulsante di Emergenza Sversamento Diesel - EBOW *Emergency Diesel Oil Valve - EBOW*
BOF -0.30 m	Quota Fondo Tubo - BOF *Bottom of Pipe's pusle - BOP*

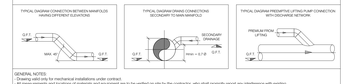
Manhole - Tag



OTHER NOTES:
This submission has been prepared to provide an overall view of the external systems, with the understanding that the MEP subcontractor will develop their drawings. As such, it will be necessary to coordinate and resolve any the required, particularly regarding their integration and interfaces.
It is the responsibility of the General Contractor, during the RIBA3 design phase, to ensure that the systems are coordinated and compliant with the final RIBA4 project for the "Civil Design and Structural Design" and "Fire Drawings","Hvac,Civil Design and Security Design" projects. Any necessary adjustments will be conducted in accordance with project requirements and project needs defined in the RIBA4 design.

NOTES PLUMBING AND DRAINAGE SYSTEMS:

- Supply piping for the water and sanitary utilities within the toilets will be made of multilayer from manifolds.
- Provide a shut-off valve for each toilet unit and a shut-off valve for each group of toilets in the same area.
- Provide vents at high points and drains (connected to prepared manholes or manifolds) at low points, in locations agreed with the DL.
- All drain risers should be equipped with inspectable siphon at the foot, selected above the roof and adequately ventilated.
- Sanitary collection networks must be separate and distinct from those into which they flow by the interposition of an inspectable siphon.
- Greywater collection networks must be separate and distinct from those into which they flow by the interposition of an inspectable siphon.
- Stormwater collection networks shall be separate and distinct from blackwater to the collection sumps located upstream of the Inspection/SiphonBrace unit feeding to the public sewer.
- The sizing of the pipes must be carried out in accordance with the regulations in force, taking into account the collection and lifting tanks equipped with electric pumps.
- Testing operations should be carried out while keeping the drainage network continuously visible.
- Provide inspection points in manholds upstream of each confluence, bend or special piece.
- The minimum slopes of the pipes (unless otherwise indicated) shall have the following minimum slopes:
  - Immobile drains to sewer risers: >= 2%
  - blackwater / grease collectors: >= 7%
  - stormwater / condensate manholds: >=0.5%


TYPICAL DIAGRAM CONNECTION BETWEEN MANIFOLDS HAVING DIFFERENT ELEVATIONS
TYPICAL DIAGRAM DRAINS CONNECTING SECONDARY TO MAIN MANIFOLD
TYPICAL DIAGRAM PREMPTIVE LIFTING PUMP CONNECTION WITH DRAINAGE NETWORK
SECONDARY MANIFOLD
MAIN MANIFOLD
PREMIUM FROM LIFTING

GENERAL NOTES:

- Drawing valid only for mechanical installations under contract.
- The dimensions indicated in the drawings must be carefully checked, to be verified on site by the contractor, who shall promptly report any interference with existing.
- Any undetected equipment shall be maintained, if necessary, it shall be modified and restored by the contractor.
- Exact locations of equipment, materials, piping, ducts, connection to existing facilities shall be determined by the contractor and submitted to the construction manager
- The contractor shall be fully responsible for the correct execution of the works.
- All equipment must be easily maintainable and accessible via bypasses or similar solutions even where not specifically specified.
- It will be the contractor's responsibility to size and assemble all supports, in a workmanlike manner and in compliance with all regulatory requirements for earthquake-proofing.
- The contractor must carefully check the design and report any inaccuracies, incompletenesses or discrepancies with any standard or law.
- The installation of elements in the field must comply with all manufacturers' prescriptions and recommendations, good engineering rules on acoustics and fire prevention.
- All planned and described interventions, evaluated on the basis of the available documentation, should be re-evaluated and deepened during the works, after plant verification following the removal of coverings and finishes.
- Connections between two or more sections of duct both with indoor units and with ducts themselves, shall be made only with invitation fittings and not with hammered derivations or detachments. The Contractor shall be responsible for making construction drawings showing the type of derivations and connections between ducts and ducts with the indoor units provided.

NOTE GENERALI:

1. Il presente progetto presenta il valido solo per il progetto di Discipline
2. Per la corretta interpretazione del disegno è necessario la lettura congiunta di tutti gli elaborati di progetto e grafici
3. Le informazioni contenute nella tavola del progetto e dei disegni di dettaglio/tavole sintesi a mero di supporto alla buona fine del progetto, che restano fissano le progettazioni insieme ad progetto.
4. Le quantità e misure riportate nella tavola sono indicative e vengono definitivate dalla misurazione esatta durante la esecuzione delle lavorazioni.
5. Il progetto prevede la realizzazione di un impianto di drenaggio delle acque meteoriche, di lavaggio e antincendio. Il progetto è stato sviluppato in conformità alle normative vigenti in materia di sicurezza e prevenzione incendi. In ogni caso tutti gli allestimenti di aree a cavallo che prevedono la presenza di persone dovranno essere dotati di impianto di rilevazione incendi e di un sistema di allarme e di spegnimento.
6. Il progetto potrà essere oggetto di revisioni a seguito di nuovo normative o richieste dell'ente preposto.
7. Tutte le linee e le colonnanti saranno da valutarsi e definire con la DL/ committenza.
8. Le tubazioni, laddove nel definito a progetto potrebbero risultare collocate a vista nelle aree, per cause delle maggiori esigenze architettoniche di quella particolari aree, dovranno essere opportunamente rivestite e/o protette con materiali e/o soluzioni definiti in coordinamento della direzione/ committenza.
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10. Si ritiene esclusa ogni presente opzione la fornitura delle apparecchiature e/o componenti che non siano espressamente descritti nella presente relazione e/o elaborati grafici. Eventuali componenti di servizio, la fornitura di tali componenti sarà da considerarsi come extra.
11. L'elaborato mostra gli impianti tecnici e/o oggetto e/o alla materia a cui è riferito. Eventuali altri impianti o elementi sono da intendersi di riferimento, esistente, esterno, comune o nuovo.

DRAWING NOTES:

1. Drawing valid only for "Subject" scope.
2. All the correct interpretation of the drawings, it is necessary to read all project and graphic drawings together.
3. Any undetected equipment or modification of the project and drawings or activity performed, must be reported to the designers, and adapted, if necessary, by the contractor at the expense of the contractor.
4. The project has been developed following the main mitigation measures that will be implemented in the construction and operation phases of the plant, in order to minimize the environmental impacts of the project.
5. All equipment must be easily maintainable and accessible via bypasses or similar solutions even where not specifically specified.
6. It will be the contractor's responsibility to size and assemble all supports, in a workmanlike manner and in compliance with all regulatory requirements for earthquake-proofing.
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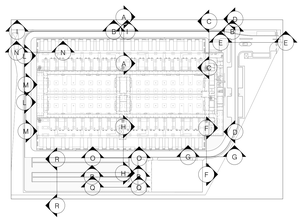
Firmato digitalmente da:
Roberto Cereda
Data: 01/08/2025 12:36:35



REV.	DATA / DATE	DESCRIZIONE / DESCRIPTION
	11/10/2024	RIBA4 - Underground Services

PROGETTISTA / DESIGNER:

L22 s.p.a. a socio direzione di Lombardini22 S.p.A.
Via Lombardini 22
43122 PR (PR) Italia
P.IVA/VAT 02163520354
20143 Milano, Italia
T. 02 89 30 59 67
www.l22.it

Black & White Engineering
88 Wilton Street London, EC2A 2BB
United Kingdom
www.bw-engineering.com

STRUTTURE / STRUCTURE:
SPS s.r.l.
S.P. 6, Km 1
Via M. Gioia, 64 - 20125 Milano, Italia
segreteria@sps-ing.it - T. 0270364620
www.sps-ing.it

COMMITTENTE / CLIENT:
STACK INFRASTRUTTURE
INFRASTRUCTURE ITALIA LAND 6 S.r.l.
Via Dei Bocconi Rovicciolo 21 Rescaldina (MI) 20030 Rescaldina (MI)

PROGETTO / PROJECT:
MIL 05A
Via Galileo Galilei SNC, Vignate (MI)

PROGETTISTA / DESIGNER:
Ing. Roberto Cereda - Iscritto all'Ordine degli Ing. di Brescia n°2909

OGGETTO / OBJECT:
RIBA 4 - MIL 05A

TITOLO / DESCRIPTION:
Sections, 1/2 External Services
Oilwater Drainage System
Sezioni, 1/2 Servizi Esterni
Scarichi Acque Oleose

DISEGNATO DA: / DRAWN BY:	CONTROLLATO DA: / CHECKED BY:
L22	L22
DATA / DATE: 11/10/2024	SCALA / SCALE: 1:100
NOME FILE / FILE NAME: 4025_EM_5310-Z	
COMMESSA / JOB: 4025	FORMATO / SHEET: A0++

TAVOLA / DRAWING:
EM_5310

DATA REV.: 11/10/2024
REV.: